

KINETIC ENERGY DENSITY ROLLOVER DETECTIVE SENSING ALGORITHM

Abstract

A rollover detection system (12) for an automotive vehicle (10) includes a controller (14) that is hooked to various types of sensors. The sensors may include a lateral acceleration sensor and another sensor or combination of sensors that gives an indication to another lateral condition of the vehicle. The controller determines a roll condition in response to comparing the lateral acceleration and the lateral condition other than lateral acceleration to a threshold. When the conditions are above the threshold then a roll condition is indicated. When a roll condition is indicated a safety device (40) may be controlled to prevent rollover and/or deploy a safety device.